

Best of Last Week: Harnessing entire spectrum of light, a milestone for universal memory, and a new take on Keto diet

January 27 2020, by Bob Yirka

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It was a good week for physics as a team from the University of Waterloo found that [wave echoes from a black hole may confirm Stephen Hawking's hypothesis of quantum black holes](#). They believe

they detected signs of the quantum "fuzz" that surrounds newly formed black holes. Also, a team of researchers at The Ohio State University found [a way to harness the entire spectrum of sunlight](#) using a single molecule that can absorb sunlight efficiently and also act as a catalyst to convert solar energy into hydrogen. And a combined team from the University of the Witwatersrand and Huazhang University of Science and Technology introduced [a new twist on quantum fiber communications](#)—they demonstrated multiple quantum patterns of twisted light transmitted across a conventional fiber link.

In technology news, a team of physicists at Lancaster University announced that ['universal memory' research has passed a new milestone](#)—they showed a way to connect memory cells together to create RAM with the speed of DRAM. Also, an international team of researchers [created organic-metal oxide transistors with high operational stability](#), making them more cost-effective. And a team at MIT announced that they had devised a strategy for creating [gradient Li-rich oxide cathode particles for batteries with minimum oxygen release](#). Also, a team at the Korea Advanced Institute of Science and Technology announced that they had built [a robot that carries out human tasks faster than other robots](#). Called M-Hubo, the wheeled humanoid robot was designed to assist humans in mundane tasks.

In other news, a team at the California Institute of Technology announced that they had built [a camera that was able to take pictures of transparent objects at 1 trillion frames per second](#)—such as shockwaves and potentially neuronal signals. And two teams working independently made headlines when they suggested that [the coronavirus that emerged in China may have originated in snakes or bats](#).

And finally, if you are one of the thousands who have tried the Keto diet, you may want to check out work done by a team at Yale University—they found that [the diet works best in small doses](#).

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